

CLINICAL AND EXPERIMENTAL IMMUNOLOGY

AN OFFICIAL JOURNAL OF THE
BRITISH SOCIETY FOR IMMUNOLOGY

Editor

J. L. TURK

Editorial Board

B. ALBINI	T. FEIZI	W. E. PARISH
G. L. ASHERSON	A. FERGUSON	DELPHINE M. V. PARROTT
K. F. AUSTEN	M. F. GREAVES	P. Y. PATERSON
J. F. BACH	A. HAMBLIN	M. PEPYS
R. W. BALDWIN	E. J. HOLBOROW	T. A. E. PLATTS-MILLS
R. ST. C. BARNETSON	G. HOLM	L. POULTER
J. R. BATCHELOR	G. JANOSSY	M. REICHLIN
M. C. BERENBAUM	A. B. KAY	J. F. SOOTHILL
P. BEVERLEY	S. KNIGHT	G. A. T. TARGETT
G. F. BOTTAZZO	P. H. LAMBERT	R. A. THOMPSON
J. BROSTOFF	T. LEHNER	M. W. TURNER
D. L. BROWN	R. J. LEVINSKY	M. E. H. TURNER-WARWICK
D. CATOVSKY	N. R. LING	R. VAN FURTH
G. A. CURRIE	P. M. LYDYARD	M. H. WANSBOROUGH-JONES
A. J. DAVIES	R. N. MAINI	A. D. B. WEBSTER
A. M. DENMAN	C. A. MIMS	P. C. WILKINSON
J. M. DWYER	J. MOWBRAY	R. WILLIAMS

VOLUME 54

Pages 1-850

BLACKWELL SCIENTIFIC PUBLICATIONS
OXFORD LONDON EDINBURGH BOSTON MELBOURNE

1983

PRINTED IN GREAT BRITAIN AT THE ALDEN PRESS, OXFORD

PUBLISHED BY BLACKWELL SCIENTIFIC PUBLICATIONS, OSNEY MEAD, OXFORD

CONTENTS

VOLUME 54 · NUMBER 1 · OCTOBER 1983

REVIEW

- J. L. TOY: The interferons 1
- S. TARGAN, LEORA BRITVAN, R. KENDAL, SHIRIN VIMADALAL & A. SOLL: Isolation of spontaneous and interferon inducible natural killer like cells from human colonic mucosa: lysis of lymphoid and autologous epithelial target cells 14
- TERESA H. BACON, A. DE VERE-TYNDALL, D. A. J. TYRRELL, A. M. DENMAN & BARBARA M. ANSELL: Interferon system in patients with systemic juvenile chronic arthritis: *in vivo* and *in vitro* studies 23
- BEVERLY A. BLAZAR, J. FITZGERALD, LINDA SUTTON & M. STROME: Increased sensitivity to natural killing in Raji cells is due to effector recognition of molecules appearing on target cell membranes following EBV cycle induction 31
- I. KIMBER, T. BAKACS & M. MOORE: Regulation of natural and antibody-dependent cellular cytotoxicity by staphylococcal enterotoxin A 39
- M. SITBON, ELISABETH GOMARD, C. HANNOUN & J.-P. LEVY: Anti-influenza human T killer cells present an intertypic activity anti-A and -B type viruses in a secondary reaction *in vitro* 49
- MARIE FAVROT, G. JANOSSY, N. TIDMAN, HILARY BLACKLOCK, ELISA LOPEZ, MARGARITA BOFILL, I. LAMPERT, G. MORGENTHAU, R. POWLES, H. G., PRENTICE & A. V. HOFFBRAND: T cell regeneration after allogeneic bone marrow transplantation 59
- M. SCHLESINGER, D. ILFELD, Z. T. HANDZEL, Y. ALTMAN, O. KUPERMAN, S. LEVIN, C. BIBI, L. NETZER & N. TRAININ: Effect of colchicine on immunoregulatory abnormalities in familial Mediterranean fever 73
- T. TOGE, M. TANADA, K. YAJIMA, H. KOHNO, E. ITAGAKI & T. HATTORI: Induction of suppressor cell activities in normal lymphocytes by sera from gastric cancer patients 80
- S. GUPTA, S. M. FIKRIG & M. S. NOVAL: Immunological studies in patients with isolated growth hormone deficiency 87
- M. P. MOORE, I. L. SARGENT, A. TING & C. W. G. REDMAN: Maternal cell-mediated immunity in pregnancy—lymphocyte response of mothers and their non-pregnant HLA identical sisters to paternal HLA 91
- J. W. MANNHALTER, G. J. ZLABINGER, R. AHMAD & MARTHA M. EIBL: Human T cell proliferation in response to *E. coli* presented by autologous macrophages is antigen specific 95
- A. S. KRAJEWSKI, A. E. DEWAR, P. H. SEIDELIN & R. MURRAY: Colony formation and interleukin 2 production by leukaemic human T cells 103
- J. B. DE SOUZA & J. H. L. PLAYFAIR: Anti-lymphocyte antibodies in lethal mouse malaria. II. Induction of an autoantibody specific suppressor T cell by non-lethal *P. yoelii* 110
- P. M. BRICKELL, N. E. RICHARDSON, I. MCCONNELL & A. FEINSTEIN: Distinct populations of class II molecules identified by monoclonal antibodies 117
- M. WAHLGREN, K. BERZINS, P. PERLMANN & A. BJÖRKMAN: Characterization of the humoral immune response in *Plasmodium falciparum* malaria. I. Estimation of antibodies to *P. falciparum* or human erythrocytes by means of microELISA 127
- M. WAHLGREN, K. BERZINS, P. PERLMANN & M. PERSSON: Characterization of the humoral immune response in *Plasmodium falciparum* malaria. II. IgG subclass levels of anti-*P. falciparum* antibodies in different sera 135
- MAUD BRANDELY, B. HURTREL & P. H. LAGRANGE: Comparison between immunopotency tests and specific active or passive acquired resistance against *Mycobacterium tuberculosis* in mice induced with three different preparations of BCG Pasteur vaccine 143
- A. HOFFENBACH, P. H. LAGRANGE & M. A. BACH: Surface Lyt phenotype of suppressor cells in C57BL/6 mice infected with *Mycobacterium lepraemurium* 151

N. LYSKOM & M. J. BRUETON: The development of intraepithelial and Peyer's patch lymphocyte sub-types in the small intestine of newborn rats	158
T. HIBI, S. AISO, M. ISHIKAWA, M. WATANABE, T. YOSHIDA, K. KOBAYASHI, H. ASAKURA, S. TSURU & M. TSUCHIYA: Circulating antibodies to the surface antigens on colon epithelial cells in ulcerative colitis	163
K. IKEBE, R. C. GUPTA & E. M. TAN: Characterization of DNA in polyethylene glycol precipitated immune complexes from sera of patients with systemic lupus erythematosus	169
A. PRESSEY, C. D. PUSEY, A. DASH, D. K. PETERS & C. M. LOCKWOOD: Production of a monoclonal antibody to autoantigenic components of human glomerular basement membrane	178
H. OHKUNI, J. FRIEDMAN, I. VAN DE RIJN, V. A. FISCHETTI, T. POON-KING & J. B. ZABRISKIE: Immunological studies of post-streptococcal sequelae: serological studies with an extracellular protein associated with nephritogenic streptococci	185
J. SANCHO, J. EGIDO, F. RIVERA & L. HERNANDO: Immune complexes in IgA nephropathy: presence of antibodies against diet antigens and delayed clearance of specific polymeric IgA immune complexes	194
R. H. KAUFFMANN, HENDRIKA H. DE ROOY-DIJK, F. KLEIN, GEERTRUIDA J. M. LAFEVER, A. CATS & L. A. VAN ES: The significance of immunofluorescent immunoglobulin inclusions in polymorphonuclear leucocytes for the detection of circulating immune complexes	203
I. H. FRAZER, I. J. KRONBORG & I. R. MACKAY: Antibodies to liver membrane antigens in chronic active hepatitis (CAH). II. Specificity for autoimmune CAH	213
N. IZUMI, Y. HASUMURA & J. TAKEUCHI: Lymphocyte cytotoxicity for autologous human hepatocytes in alcoholic liver disease	219
M. A. ISTURIZ, MIRTA GIORDANO & GRACIELA P. SEREBRINSKY: Effect of rheumatoid factors and normal human sera on immune complex-Fc γ R interaction	225
O. CRIVELLI, CARLA LAVARINI, ELISABETTA CHIABERGE, A. AMOROSO, PATRIZIA FARCI, F. NEGRO & M. RIZZETTO: Microsomal autoantibodies in chronic infection with the HBsAg associated delta (δ) agent	232
S. I. RENNARD, YUANG-FANG CHEN, R. A. ROBBINS, J. E. GADEK R. G. CRYSTAL: Fibronectin mediates cell attachment to C1q: a mechanism for the localization of fibrosis in inflammatory disease	239
M. R. DAHA, H. M. HAZEVOET, J. HERMANS, L. A. VAN ES & A. CATS: Relative importance of C4 binding protein in the modulation of the classical pathway C3 convertase in patients with systemic lupus erythematosus	247
ANITA T. GEWURZ, SUZANNE IMHERR, SUSAN STRAUSS, H. GEWURZ & CAROLYN MOLD: C3 nephritic factor and hypocomplementaemia in a clinically healthy individual	253
H. M. FALCK & P. WESTERMARK: Protein AA in primary and myeloma associated amyloidosis	259
W. J. HABETS, D. J. DE ROOIJ, M. H. SALDEN, A. P. VERHAGEN, C. A. VAN EEKELEN, L. B. VAN DE PUTTE & W. J. VAN VENROOIJ: Antibodies against distinct nuclear matrix proteins are characteristic for mixed connective tissue disease	265
K. KAMATA, M. OKUBO & M. SADA: Immunosuppressive factors in uraemic sera are composed of both dialysable and non-dialysable components	277
C. MCSHARRY, S. W. BANHAM, P. P. LYNCH & G. BOYD: Skin testing and extrinsic allergic alveolitis	282

VOLUME 54 · NUMBER 2 · NOVEMBER 1983

REVIEW

G. BJUNE, O. CLOSS & R. ST. C. BARNETSON: Early events in the host—parasite relationship and immune response in clinical leprosy: its possible importance for leprosy control	289
---	-----

REVIEW

- T. H. REA: Suppressor cell activity and phenotypes in the blood or tissues of patients with leprosy 298
- G. T. LAYTON & A. M. SMITHYMAN: The effects of oral and combined parenteral/oral immunization against an experimental *Escherichia coli* urinary tract infection in mice 305
- K. BERZINS, M. WAHLGREN & P. PERLMANN: Studies on the specificity of anti-erythrocyte antibodies in the serum of patients with malaria 313
- S. NAKAYAMA, H. GEWURZ, T. HOLZER, T. W. DU CLOS & CAROLYN MOLD: The role of the spleen in the protective effect of C-reactive protein in *Streptococcus pneumoniae* infection 319
- DEBORAH ROWE, D. A. ISENBERG & P. C. L. BEVERLEY: Monoclonal antibodies to human leucocyte antigens in polymyositis and muscular dystrophy 327
- J. D. IVANYI, E. KRAMBOVITIS & M. KEEN: Evaluation of a monoclonal antibody (TB72) based serological test for tuberculosis 337
- S. S. WITKIN, J. SONNABEND, J. M. RICHARDS & D. T. PURTILO: Induction of antibody to asialo GM1 by spermatozoa and its occurrence in the sera of homosexual men with acquired immune deficiency syndrome (AIDS) 346
- S. ANSAR AHMED, P. R. YOUNG & W. J. PENHALE: The effects of female sex steroids on the development of autoimmune thyroiditis in thymectomized and irradiated rats 351
- DOMINIQUE ISRAEL-BIET, LAURE-HÉLÈNE NOËL, MARIE-ANNE BACH, MIREILLE DARDENNE & J. F. BACH: Marked reduction of DNA antibody production and glomerulopathy in thymulin (FTS-Zn) or cyclosporin A treated (NZB × NZW)_{F1} mice 359
- R. VAN ZYL SMIT, A. J. REES & D. K. PETERS: Factors affecting severity of injury during nephrotoxic nephritis in rabbits 366
- MARTHE HORNELAND, O. P. REKVIG, L. JØRGENSEN & K. HANNESTAD: Cultured human endothelial cells display an antigen that is recognized by certain human anti-chromatin autoantibodies 373
- H. N. A. WILLCOX, J. NEWSOM-DAVIS & L. R. CALDER: Greatly increased autoantibody production in myasthenia gravis by thymocyte suspensions prepared with proteolytic enzymes 378
- E. VAINIO, G. M. LENOIR & R. M. FRANKLIN: Autoantibodies in three populations of Burkitt's lymphoma patients 387
- MONIKA OSTENSEN, B. MØRLAND, G. HUSBY & O. P. REKVIG: A serum antibody in patients with rheumatoid arthritis stimulates cathepsin B activity in peritoneal mouse macrophages 397
- H. J. DE AIZPURUA, B. UNGAR & B. H. TOH: Flow microfluorimetric analysis of autoantibody reactions with parietal cell surface membranes in pernicious anaemia 405
- TH. VAN DEN AKKER, A. P. GILLEN, H. BRIL, R. BENNER & J. RADL: Increased incidence of transient homogeneous immunoglobulins in irradiated and reconstituted C57BL/KaLw-Rij mice treated with 2'-deoxyguanosine 411
- R. C. WILLIAMS, MARILYN H. DUNCAN, K. S. K. TUNG, ELIZABETH R. STINSON, LESLEY C. WALKER & M. F. GREAVES: Characterization of immune complexes in acute lymphoblastic leukaemia 418
- J. K. NAAMA, W. S. MITCHELL & K. WHALEY: Inhibition of complement-mediated solubilization of antigen-antibody complexes by sera from patients with rheumatoid arthritis 429
- G. BAATRUP, I. PETERSEN, J. C. JENSENIUS & S.-E. SVEHAG: Reduced complement-mediated immune complex solubilizing capacity and the presence of incompletely solubilized immune complexes in SLE sera 439
- G. VIRELLA, C. W. SHULER & T. SHERWOOD: Non-complement-dependent adsorption of soluble immune complexes to human red cells 448
- D. LAPPIN, B. DAMERAU & K. WHALEY: Anaphylatoxins inhibit C2 production 455
- I. M. RICHARDS, R. P. EADY, D. M. JACKSON, T. S. C. ORR, D. I. PRITCHARD, K. VENDY & E. WELLS: *Ascaris*-induced bronchoconstriction in primates experimentally infected with *Ascaris suum* ova 461

D. I. PRITCHARD, R. P. EADY, S. T. HARPER, D. M. JACKSON, T. S. C. ORR, I. M. RICHARDS, S. TRIGG & E. WELLS: Laboratory infection of primates with <i>Ascaris suum</i> to provide a model of allergic bronchoconstriction	469
A. FERRANTE & B. ROWAN-KELLY: Activation of the alternative pathway of complement by <i>Acanthamoeba culbertsoni</i>	477
BEATE CZARNETZKI: Increased monocyte chemotaxis towards leukotriene B ₄ and platelet activating factor in patients with inflammatory dermatoses	486
T. J. HALL, S.-H. CHEN, J. BROSTOFF & P. M. LYDYARD: Modulation of human natural killer cell activity by pharmacological modulators	493
Y. WANG, F. KRISTENSEN, F. JONCOURT, D. O. SLAUSON & A. L. DE WECK: Analysis of H ³ -histamine interaction with lymphocytes: receptor binding or uptake?	501
M. V. QUEIROS & B. ROCHA: T-cell subsets in patients with rheumatoid arthritis: reduction of cells with Leu 2A phenotype in patients with serum IgG immunocomplexes	509
CHANTAL ANDRE, J. P. FARCET, NOUFFISSA OUHRIRI, MARIE-FRANÇOISE GOURDIN, JACQUELINE BOUGUET & F. REYES: Phenotype study with monoclonal antibodies of T lymphocyte colonies in normal individuals and in patients with chronic OKT8 ⁺ lymphocytic leukaemia	515
ANNE M. DICKINSON, SHARRON GEORGE & S. J. PROCTOR: T cell subpopulations in CLL: methods of T cell enrichment artificially alter proportions of OKT4 and OKT8 positive cells	525
J. EGIDO, R. BLASCO, J. SANCHO, L. LOZANO & V. GUTIERREZ-MILLET: Immunological studies in a familial IgA nephropathy	532
CATHERINE FOURNIER, H. CHEN, AUBENE LEGER & JEANNINE CHARREIRE: Immunological studies of autoimmune thyroid disorders: abnormalities in the inducer T cell subset and proliferative responses to autologous and allogeneic stimulation	539
P. B. ROSSITER: Proliferation of T lymphoblasts in rabbits fatally infected with the Herpes virus of malignant catarrhal fever	547
M. H. CLAESÖN & C. RÖPKE: Colony formation by subpopulations of T lymphocytes. IV. Inhibitory effect of hydrocortisone on human and murine T cell subsets	554
D. TARTOF, J. J. CURRAN, D. LEVITT & M. R. LOKEN: The skin test antigen stimulated killer (STAK) cell mediating NK like CMC is OKM1 positive and OKT3 negative	561
A. PERL, R. GONZALEZ-CABELLO & P. GERGELY: Stimulation of lectin-dependent cell-mediated cytotoxicity against adherent HEp-2 cells by carrageenan	567
S. MIYAZAKI, T. AKIYOSHI, S. ARINAGA, F. KOBAYASHI, T. WADA & H. TSUJI: Depression of the generation of cell-mediated cytotoxicity by suppressor cells after surgery	573
MARYSE LEVACHER-PLACE, MARIE-ANNE GOUGEROT-POCIDALO, B. ROUVIEUX, LAURENCE KRAUS & J.-J. POCIDALO: Characterization of immunological depression in mice exposed to normobaric oxygen	580
E. BRUMMER & D. A. STEVENS: Enhancing effect of murine polymorphonuclear neutrophils (PMN) on the multiplication of <i>Blastomyces dermatitidis</i> <i>in vitro</i> and <i>in vivo</i>	587
R. J. LEVINSKY, B. A. M. HARVEY, C. H. RODECK & J. F. SOOTHILL: Phorbol myristate stimulated NBT test: a simple method suitable for ante-natal diagnosis of chronic granulomatous disease	595
X. BAUR, M. DEWAIER, K. HAEGELE, H. PRELICZ, A. SCHOLL & H. TICHY: Common antigenic determinants of haemoglobin as a basis of immunological cross-reactivity between chironomid species (Diptera, Chironomidae): studies with human and animal sera	599

VOLUME 54 · NUMBER 3 · DECEMBER 1983

R. R. FREEMAN & A. A. HOLDER: Characteristics of the protective response of BALB/c mice immunized with a purified <i>Plasmodium yoelii</i> schizont antigen	609
D. SNARY, JANETTE E. FLINT, J. N. WOOD, M. T. SCOTT, M. D. CHAPMAN, JANE DODD, T. M.	

JESSELL & M. A. MILES: A monoclonal antibody with specificity for <i>Trypanosoma cruzi</i> , central peripheral neurones and glia	617
H. V. SMITH, J. R. KUSEL & R. W. A GIRDWOOD: The production of human A and B blood group like substances by <i>in vitro</i> maintained second stage <i>Toxocara canis</i> : their presence on the outer larval surfaces and in their excretions/secretions	625
J.-P. SALIER, P. GLYNN, J.-M. GOUST & M. LOUISE CUZNER: Distribution of nominal and latent IgG(Gm) allotypes in plaques of multiple sclerosis brain	634
F. VARTDAL & B. VANDVIK: Multiple sclerosis: subclasses of intrathecally synthesized IgG and measles and varicella zoster virus IgG antibodies	641
H.-P. SCHULTHEISS, P. BERG & M. KLINGENBERG: The mitochondrial adenine nucleotide translocator is an antigen in primary biliary cirrhosis	648
SHARRON L. PUELLER, B. G. FIRKIN, NICOLE KERLERO DE ROSBO, A. RIGLAR & I. R. MACKAY: Association of increased immune complexes, platelet IgG and serum IgG in chronic active hepatitis	655
G. TODA, Y. IKEDA, N. HASHIMOTO, M. YAMAZAKI, M. TORII & H. OKA: Liver cell membrane antibody detected by protein A and isolated rabbit liver plasma membrane in sera of patients with chronic liver diseases	661
H. NAGURA, Y. TSUTSUMI, H. HASEGAWA, K. WATANABE, P. K. NAKANE & W. R. BROWN: IgA plasma cells in biliary mucosa: a likely source of locally synthesized IgA in human hepatic bile	671
P. H. M. DE MULDER, HELGA VAN RENNES, P. D. MIER, MIEKE BERGERS, B. E. DE PAUW & C. HAANEN: Characterization of monocyte maturation in adherent and suspension cultures and its application to study monocyte differentiation in Hodgkin's disease	681
C. VINCENT, J.-P. REVILLARD & R. BATAILLE: Characterization of polyclonal autoantibodies specific for β_2 -microglobulin in multiple myeloma sera	689
C. D. PUSEY, C. BOWMAN, D. K. PETERS & C. M. LOCKWOOD: Effects of cyclophosphamide on autoantibody synthesis in the Brown Norway rat	697
B. B. MISHRA, L. W. POULTER, G. JANOSSY & D. GERAINT JAMES: The distribution of lymphoid and macrophage like cell subsets of sarcoid and Kveim granulomata: a possible mechanism of negative PPD reaction in sarcoidosis	705
W. R. S. ALOMARI, J. R. ARCHER, R. BROCKLEHURST & H. L. F. CURREY: Binding of immunoglobulins and immune complexes to cartilage derived extracts	716
F. C. HAY, A. YOUNG, M. G. JONES, L. J. NINEHAM, D. K. MALE & I. M. ROITT: Antiglobulins and circulating complexes in early rheumatoid arthritis	723
P. J. W. VENABLES, P. R. SMITH & R. N. MAINI: Purification and characterization of the Sjögren's syndrome A and B antigens	731
V. A. DANIS & R. V. HEATLEY: Pokeweed mitogen stimulated immunoglobulin production by peripheral blood lymphocytes <i>in vitro</i> : evidence for disordered immunoregulation in patients with ulcerative colitis and Crohn's disease	739
T. OKAMOTO, T. TAMURA & T. TAKANO: Evidence in patients with systemic lupus erythematosus of the presence of antibodies against RNA-dependent DNA polymerase of baboon endogenous virus	747
T. GODAL, E. RUUD, R. HEIKKILA, S. FUNDERUD, T. MICHAELSEN, R. JEFFERIS, N. R. LING & KARI HILDRUM: Triggering of monoclonal human lymphoma B cells with antibodies to IgM heavy chains: differences of response obtained with monoclonal as compared to polyclonal antibodies	756
T. KURAMACHI, T. OHNUKI, T. INOUE & M. ISHIDA: Autologous rosette forming cells in patients with renal diseases	765
F. R. DAVEY, A. S. KUREC & H. V. LAMBERSON: Mouse rosette positive B cells fail to synthesize immunoglobulin following incubation with pokeweed mitogen	771
P. A. DE GRAEFF, T. H. THE, P. J. J. VAN MUNSTER, T. A. OUT, J. M. VOSSEN & B. J. M. ZEGERS: The primary immune response in patients with selective IgA deficiency	778
MARY CARROLL, KATALIN LUKACS, MARGARET HODSON & A. B. KAY: Defective chemotactic factor-induced monocyte complement receptor enhancement in lung cancer	785

M. A. KERR, J. S. FALCONER, A. BASHEY & J. SWANSON BECK: The effect of C3 levels on yeast opsonization by normal and pathological sera: identification of a complement independent opsonin	793
L. WOLFE, H. FRANCIS HAVAS & MARILYN R. FENTON: An immunosuppressive lipoprotein fraction from TEPC-183 bearing mice	801
S. J. GADD & LEONIE K. ASHMAN: Binding of mouse monoclonal antibodies to human leukaemic cells via the Fc receptor: a possible source of 'false positive' reactions in specificity screening	811
J. P. VAN DER WEIJ, CORRIE J. P. VAN DER VEEN, E. DE VRIES & A. CATS: The use of a peroxidase—anti-peroxidase complex for the visualization of monoclonal antibodies on the ultrastructural level	819
J. A. SCHIFFERLI & D. K. PETERS: Immune adherence and staphylococcus protein A binding of soluble immune complexes produced by complement activation	827
S. POPPEMA, LYDIA VISSER & L. DE LEIJ: <i>Brief communication</i> : Reactivity of presumed anti-natural killer cell antibody Leu 7 with intrafollicular T lymphocytes	834
ANNOUNCEMENT	838
AUTHOR AND SUBJECT INDEXES FOR VOLUME 54	839

